

Bridge Site Data General			
Region		Made By	Date
Bridge Information			
SR	Bridge Name	Control Section	Project No.
Highway Section		Section, Township & Range	Datum
Structure width between curbs ?		What are expected foundation conditions?	
Will the structure be widened in a contract subsequent to this contract ? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		When can foundation drilling be accomplished?	
Which side and amount ?		Is slope protection or riprap required for the bridge end slopes? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Will the roadway under the structure be widened in the future? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Are sidewalks to be provided? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Stage construction requirements? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		If Yes, which side and width?	
Should the additional clearance for off-track railroad maintenance equipment be provided?		Will sidewalks carry bicycle traffic? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Can a pier be placed in the median? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Will signs or illumination be attached to the structure? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
What are the required falsework or construction opening dimensions ?		Will utility conduits be incorporated in the bridge? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Are there detour or shoofly bridge requirements? (If Yes, attach drawings) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		What do the bridge barriers transition to?	
Can the R/W be adjusted to accommodate toe of approach fills? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Furnish type and location of existing features within the limits of this project, such as retaining walls, sign support structures, utilities, buildings, powerlines, etc.	
What is the required vertical clearance?			
What is the available depth for superstructure?			
Are overlays planned for a contract subsequent to this contract? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Can profile be revised to provide greater or less clearance? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Any other data relative to selection of type, including your recommendations?	
If Yes, which line and how much?			
Will bridge be constructed before, with or after approach fill? <input type="checkbox"/> Before <input type="checkbox"/> With <input type="checkbox"/> After <input type="checkbox"/> N/A			
Attachments			
<input type="checkbox"/> Vicinity Map			
<input type="checkbox"/> Bridge Site Contour Map			
<input type="checkbox"/> Specific Roadway sections at bridge site and approved roadway sections			
<input type="checkbox"/> Vertical Profile Data			
<input type="checkbox"/> Horizontal Curve Data			
<input type="checkbox"/> Superelevation Transition Diagrams			
<input type="checkbox"/> Tabulated field surveyed and measured stations, offsets, and elevations of existing roadways			
<input type="checkbox"/> Photographs and video tape of structure site, adjacent existing structures and surrounding terrain			
<input type="checkbox"/>			
<input type="checkbox"/>			

DOT Form 235-002 EF
Revised 1/2000

Bridge Site Date General
Figure 2-A-1

Bridge Site Data Rehabilitation

Region		Made By		Date	
Bridge Information					
SR	Bridge Name			Control Section	Project No.
Highway Section		Section, Township & Range		Vertical Datum	
Existing roadway width, curb to curb		Left of \mathcal{C}	Right of \mathcal{C}		
Proposed roadway width, curb to curb		Left of \mathcal{C}	Right of \mathcal{C}		
Existing wearing surface (<i>concrete, HMA, HMA w /membrane, MC, epoxy, other</i>)				Thickness	
Existing drains to be plugged, modified, moved, other?					
Proposed overlay (<i>HMA, HMA w /membrane, MC, epoxy</i>)				Thickness	
Is bridge rail to be modified? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Existing rail type					
Proposed rail replacement type					
Will terminal design "F" be required? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Will utilities be placed in the new barrier? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Will the structure be overlayed with or after rail replacement? <input type="checkbox"/> With Rail Replacement <input type="checkbox"/> After Rail Replacement					
Condition of existing expansion joints					
Existing expansion joints watertight? <input type="checkbox"/> Yes <input type="checkbox"/> No					
		@ curb line	@ \mathcal{C} roadway	@ curb line	
Measure width of existing expansion joint, normal to skew.		Inch	Inch	Inch	
Estimate structure temperature at time of expansion joint measurement					
Type of existing expansion joint					
Describe damage, if any, to existing expansion joints					
Existing Vertical Clearance					
Proposed Vertical Clearance (at curb lines of traffic barrier)					
Attachments					
<input type="checkbox"/> Video tape of project					
<input type="checkbox"/> Sketch indicating points at which expansion joint width was measured.					
<input type="checkbox"/> Photographs of existing expansion joints.					
<input type="checkbox"/> Existing deck chloride and delamination data.					
<input type="checkbox"/> Roadway deck elevations at curb lines (10-foot spacing)					

DOT Form 235-002A EF
Revised 5/05

Bridge Site Date Rehabilitation
Figure 2-A-2

Bridge Site Data Stream Crossings

		Date	
Bridge Information			
SR	Bridge Name	Control Section	Project No.
Highway Section		Section, Township & Range	
Name of Stream		Tributary of	
Elevation of W.S. (@ date of survey)		Stream Velocity (fps @ date of survey)	
Max Highwater Elevation		Depth of Flow (@ date of survey)	
Normal Highwater Elevation			
Normal Stage Elevation			
Extreme Low Water Elevation			
Amount and Character of Drift			
Streambed Material			
Datum (i.e., USC and GS, USGS, etc.)			
Manning's "N" Value (Est.)			
Attachments			
<input type="checkbox"/> Site Contour Map (See Sect. 7.02.00 Highway Hydraulic Manual)			
<input type="checkbox"/> Highway Alignment and Profile (refer to map and profiles)			
<input type="checkbox"/> Streambed: Profile and Cross Sections (500 ft. upstream and downstream)			
<input type="checkbox"/> Photographs			
<input type="checkbox"/> Character of Stream Banks (i.e., rock, silt, etc.) / Location of Solid Rock			
<input type="checkbox"/> Other Data Relative to Selection of Type and Design of Bridge, Including your Recommendations (i.e., requirements of riprap, permission of piers in channel, etc.)			

DOT Form 235-001 EF
Revised 3/97

Bridge Site Data Stream Crossing
Figure 2-A-3

Project _____ SR _____ Prelim. Plan by _____ Check by _____ Date _____

PLAN

☐ Survey Lines and Station Ticks
☐ Survey Line Intersection Angles
☐ Survey Line Intersection Stations
☐ Survey Line Bearings
☐ Roadway and Median Widths
☐ Lane and Shoulder Widths
☐ Sidewalk Width
☐ Connection/Widening for Guardrail/Barrier
☐ Profile Grade and Pivot Point
☐ Roadway Superelevation Rate (if constant)
☐ Lane Taper and Channelization Data
☐ Traffic Arrows
☐ Mileage to Junctions along Mainline
☐ Back to Back of Pavement Seats
☐ Span Lengths
☐ Lengths of Walls next to/ part of Bridge
☐ Pier Skew Angle
☐ Bridge Drains, or Inlets off Bridge
☐ Existing drainage structures
☐ Existing utilities Type/Size, and Location
☐ New utilities - Type, Size, and Location
☐ Luminares, Junction Boxes, Conduits
☐ Bridge mounted Signs and Supports
☐ Contours
☐ Top of Cut: Toe of Fill
☐ Bottom of Ditches
☐ Test Holes (if available)
☐ Riprap Limits
☐ Stream Flow Arrow
☐ R/W Lines and/or Easement Lines
☐ Points of Minimum Vertical Clearance
☐ Horizontal Clearance
☐ Exist. Bridge No. (to be removed, widened)
☐ Section, Township, Range
☐ City or Town
☐ North Arrow
☐ SR Number
☐ Bearing of Piers, or note if radial

MISCELLANEOUS

☐ Structure Type
☐ Live Loading
☐ Undercrossing Alignment Profiles/Elevs.
☐ Superelevation Diagrams
☐ Curve Data
☐ Riprap Detail
☐ Layout Approval Block
☐ Notes to Region
☐ Names and Signatures
☐ Not Included in Bridge Quantities List
☐ Inspection and Maintenance Access

ELEVATION

☐ Full Length Reference Elevation Line
☐ Existing Ground Line x ft. Rt of Survey Line
☐ End Slope Rate
☐ Slope Protection
☐ Pier Stations and Grade Elevations
☐ Profile Grade Vertical Curves
☐ BP/Pedestrian Rail
☐ Barrier/Wall Face Treatment
☐ Construction/Falsework Openings
☐ Minimum Vertical Clearances
☐ Water Surface Elevations and Flow Data
☐ Riprap
☐ Seal Vent Elevation
☐ Datum
☐ Grade elevations shown are equal to ...
☐ For Embankment details at bridge ends ...
☐ Indicate F, H, or E at abutments and piers

TYPICAL SECTION

☐ Bridge Roadway Width
☐ Lane and Shoulder Widths
☐ Profile Grade and Pivot Point
☐ Superelevation Rate
☐ Survey Line
☐ Overlay Type and Depth
☐ Barrier Face Treatment
☐ Limits of Pigmented Sealer
☐ BP/Pedestrian Rail dimensions
☐ Stage Construction Lane Orientations
☐ Locations of Temporary Concrete Barrier
☐ Closure Pour
☐ Structure Depth/Prestressed Girder Type
☐ Conduits/Utilities in bridge
☐ Substructure Dimensions

LEFT MARGIN

☐ Job Number
☐ Bridge (before/with/after) Approach Fills
☐ Structure Depth/Prestressed Girder Type
☐ Deck Protective System
☐ Coast Guard Permit Status
☐ Railroad Agreement Status
☐ Points of Minimum Vertical Clearance
☐ Cast in Place Concrete Strength

RIGHT MARGIN

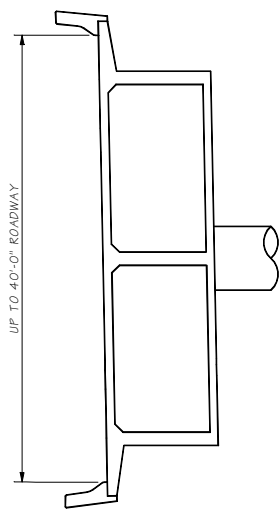
☐ Control Section
☐ Project Number
☐ Region
☐ Highway Section
☐ SR Number
☐ Structure Name

Preliminary Plan Checklist

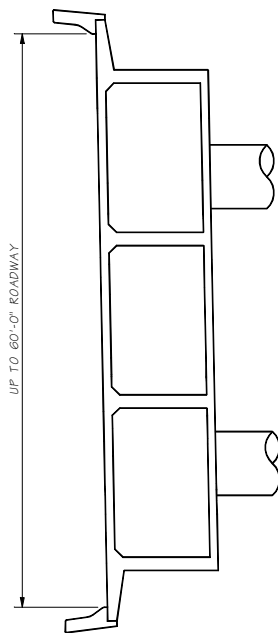
Figure 2-A-4



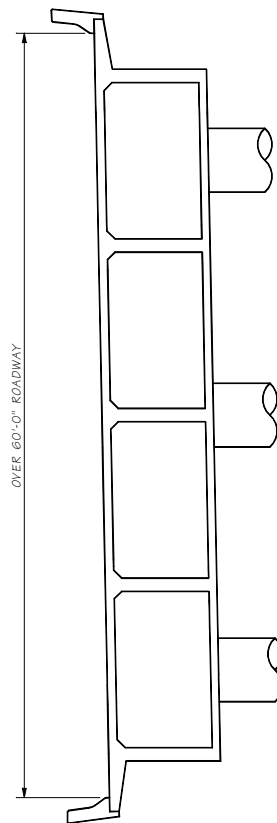
Bridge Stage Construction Comparison
Figure 2-A-5



1 COLUMN MINIMUM
PROVIDE COLLISION PROTECTION
OR DESIGN FOR COLLISION LOADS.

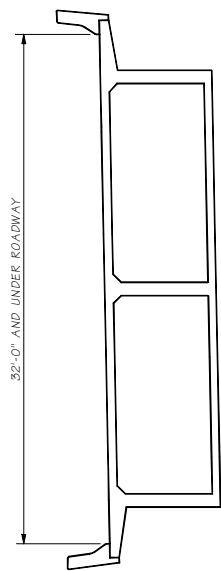


2 COLUMNS MINIMUM
PROVIDE COLLISION PROTECTION
OR DESIGN FOR COLLISION LOADS.

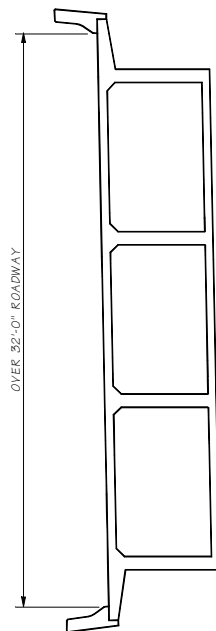


3 COLUMNS MINIMUM

SUBSTRUCTURE DESIGN



3 WEBS MINIMUM



4 WEBS MINIMUM

SUPERSTRUCTURE DESIGN

DESIGN NOTES:

1. USE THE MINIMUM COLUMNS AND WEBS SHOWN TO MEET REDUNDANCY CRITERIA FOR PREVENTING CATASTROPHIC COLLAPSE OF BRIDGES.
2. DRAWINGS ARE SHOWN FOR CONCRETE BOX GIRDERS BRIDGES, BUT THE COLUMN AND WEB REQUIREMENTS ALSO APPLY TO OTHER BRIDGE TYPES.

BRIDGE REDUNDANCY CRITERIA

Figure 2-A-6

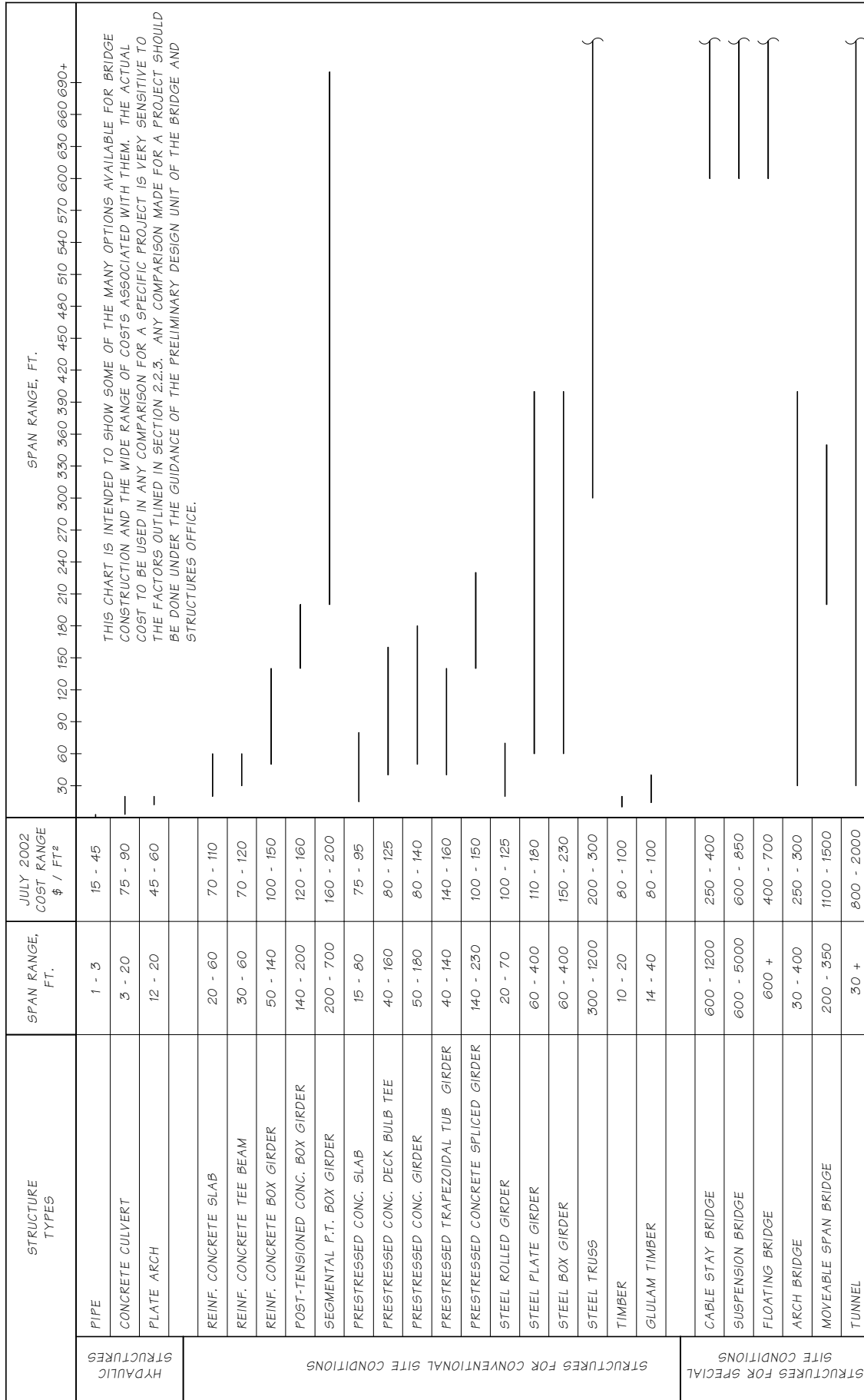


Figure 2-A-7

